

In the claims:

1. (Currently amended) A reflector for a luminaire comprising a shaped wall having a plurality of longitudinal main reflecting prisms circumferentially arranged on said shaped wall in a dome-like configuration and extending substantially the height of said shaped wall, each of said main reflecting prisms having a peak with a predetermined curvature in a cross section passing through a longitudinal axis of said shaped wall and degree of taper positioned between two valleys to provide a light reflection pattern, and a plurality of transition reflecting prisms interleaved with said main reflecting prisms, each of said transition reflecting prisms having a peak between two valleys with a ~~first portion thereof having~~ substantially said predetermined curvature degree of taper in a first region of said reflector comprising ~~over~~ a major part of said shaped wall to provide said light reflection pattern, ~~wherein a second portion of the peak of each transition prism is contiguous with said first portion and transitions~~ transitioning into the valley of a respective main prism in a second region of said reflector forming a transition zone having a length that is shorter than ~~the length of said first portion region of said respective transition prism, and said main reflecting prisms also forming a third region of said reflector without interleaved transition prisms.~~

2. (Original) A reflector according to claim 1 wherein said main reflecting prisms and said transition prisms are configured to provide internal reflection of light emanating from an interior portion of said luminaire.

3. (Original) A reflector according to claim 1 wherein the shapes of said transition reflecting prisms outside of said transition zone are essentially the same as the shapes of said main reflecting prisms.

4. (Original) A reflector according to claim 1 wherein said shaped wall is rotationally symmetric about a longitudinal axis of said luminaire.

5. (Original) A reflector according to claim 1 wherein the length of said transition zone is less than about ten percent of the length of said shaped wall.

6. (Original) A reflector according to claim 1 wherein the length of said transition zone is less than about five percent of the length of said shaped wall.

7. (Original) A reflector according to claim 1 wherein said transition zone comprises a step.

8. (Original) A reflector according to claim 1 wherein in a cross section passing through a longitudinal axis of said shaped wall, the shape of said transition zone is one of linear, parabolic, or stepped.

9. (Original) A reflector according to claim 1 wherein in a cross section passing through a longitudinal axis of said shaped wall, the shape of said transition zone is circular.

10. (Original) A reflector according to claim 9 wherein the radius of curvature of said transition zone is about three inches.

11. through 16. (Cancelled)